

ABSTRACT

A head controller controls pressure creating means for contracting and expanding the volume of a pressurizing compartment communicating with a nozzle of a droplet discharging head. Drive waveform generating means outputs a drive pulse including a first waveform element expanding the compartment, a second waveform element maintaining the expanded state of the compartment, and a third waveform element contracting the compartment so that droplets are discharged. When a first potential difference is a potential difference between the first waveform element at the beginning of the expansion and the second waveform element, and the second potential difference is a potential difference between the third waveform element at the end of the contraction and the second waveform element, the difference between the first and second potential differences is decreased when environmental temperature is higher than a first predetermined temperature, and increased when the temperature is lower than a second predetermined temperature.